

Product information

Wireless data loggers GHM DeltaBus

**Wireless data logger
 HD35EDWRPTC
 HD35EDLWRPTC**



- **Waterproof solar radiation and rainfall quantity wireless data logger**

Characteristics

Solar radiation and rainfall quantity wireless data logger. IP 67 waterproof housing. Custom LCD display (only with option L). It stores the measures in its internal memory and transmits the logged data to the base unit automatically at regular intervals or upon request. Two inputs with M12 connector for the pyranometer and the rain gauge.

Calculated quantities: daily solar radiation in Wh/m² (Wh = watt hour), rainfall rate in mm/h, daily rainfall in mm. The pyranometer mV signal is also displayed.

Acoustic alarm with internal buzzer. Configuration via HD35AP S software. Powered by the internal battery. Installation: wall mounting with HD35.24W flange (optional) or fixing to a Ø 40 mm mast with HD2003.77/40 clamping (optional). Protection shield against solar radiations HD9217TF1 (optional) for outdoor installation.

External antenna for outdoor installation with protection shield against solar radiations. Internal antenna for indoor installation.

Technical data

Solar radiation

Sensor	: Thermopile
Measuring range	: 0...2000 W/m ²
Resolution	: 1 W/m ²
Sensitivity	: Configurable in mV/(kW m-2)

Note: for the other characteristics, please refer to the data sheet of the chosen pyranometer.

Rainfall quantity

Sensor	: Tipping bucket with NC or NO configurable contact
Resolution	: Configurable 0.1 – 0.2 – 0.5 mm/tipping

Note: for the other characteristics, please refer to the data sheet of the chosen rain gauge.

Instrument

Transmission frequency	: Factory configurable at choice among: 868 MHz, 902-928 MHz, 915-928 MHz, 921-928 MHz or 915,9-929,7 MHz depending on the frequency in use in the country of installation
Transmission range	: In open field: 300 m (E, J)/ 180 m (U) with internal antenna. > 500 m (E, J, U) with external antenna. (can be reduced in presence of obstacles or adverse atmospheric conditions)
Logging interval	: 1, 2, 5, 10, 15, 30 s / 1, 2, 5, 10, 15, 30, 60 min
Power supply	: Non rechargeable lithium thionil chloride (Li-SOCI ₂) internal battery, 3.6 V, AA format, 2-pole Molex 5264 connector
Battery life	: 2 years typical (without repeaters, measurement interval 5 s and log interval 30 s)
Operating conditions	: -20...+70 °C / 0...100 %RH non condensing
Dimensions	: 129 x 80 x 55 mm (excluding sensors and external antenna)
Weight	: 250 g approx.
Housing	: Polycarbonate
Protection degree	: IP 67

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Pyranometers

LP PYRA 02

First Class pyranometer according to ISO 9060. Output in $\mu\text{V}/(\text{Wm}^{-2})$. Supplied with: shade disk, cartridge with silica-gel crystals, 2 spare sachets, levelling device, connector and Calibration Report. On request 5 or 10m cables with connector.

LP PYRA 03

Second Class pyranometer according to ISO 9060. Output in $\mu\text{V}/(\text{Wm}^{-2})$. Supplied with levelling device, connector and Calibration Report. On request 5 or 10m cables with connector and shade disk.

LP SILICON-PYRA 04

Pyranometer with silicon photodiode for measuring the global solar irradiance, diffuser for cosine correction. Spectral range 350...1100 nm. Typical sensitivity: $10 \mu\text{V}/\text{W m}^{-2}$. Measuring range: 0... 2000 W/m^2 . Fixed cable 5m long, terminated with open wires.

Rain gauges

HD2013

Tipping bucket rain gauge, 400cm² area, for temperature ranging from 4 °C to +60 °C. Standard resolution 0.2 mm. 0.1 or 0.5 mm on request with order. Normally closed output contact.

HD2013R

Tipping bucket rain gauge, 400cm² area, with heater for temperature ranging from -20 to +60 °C. Standard resolution 0.2 mm. 0.1 or 0.5 mm on request with order. Normally closed output contact. Power supply: 12 Vdc or 24 Vdc \pm 10% / absorbed power 165 W.

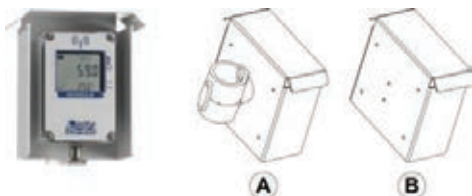
HD2015

Tipping bucket rain gauge, 200cm² area, for temperature ranging from 4 °C to +60 °C. Standard resolution 0.2 mm. 0.1 or 0.5 mm on request with order. Normally closed output contact.

HD2015R

Tipping bucket rain gauge, 200cm² area, with heater for temperature ranging from -20 to +60 °C. Standard resolution 0.2 mm. 0.1 or 0.5 mm on request with order. Normally closed output contact. Power supply: 12 Vdc or 24 Vdc \pm 10% / absorbed power 50 W.

HD9217TF1 solar radiations shield options



A = for fixing to a \varnothing 40 mm mast (with HD2003.77/40 clamping)

B = wall mount (without clamping)

Ordering codes

HD35ED - 1. WRPTC. 2.

1.	LCD	
	0	without LCD
	L	with custom LCD
2.	Radio frequency	
	J	915.9-929.7 MHz (Japan)
	E	868 MHz (Europe)
	U	902-928 MHz (U.S.A. and Canada) reducible to 915-928 MHz (Australia) or 921-928 MHz (New Zealand)